IUPHAR Nomenclature Reports

International Union of Basic and Clinical Pharmacology. CX. Classification of Receptors for 5-hydroxytryptamine; Pharmacology and Function

International Union of Basic and Clinical Pharmacology. CXI. Pharmacology, Signaling, and Physiology of Metabotropic Glutamate Receptors
Karen J. Gregory and Cyril Goudet

Review Articles

- **E1 Enzymes as Therapeutic Targets in Cancer**
  Samir H. Barghout and Aaron D. Schimmer

- Pharmacological Manipulation of Translation as a Therapeutic Target for Chronic Pain
  Muhammad Saad Touaief, Stephanie I. Shiers, James J. Sahn, and Theodore J. Price

- Mutations in G Protein-Coupled Receptors: Mechanisms, Pathophysiology and Potential Therapeutic Approaches
  Torsten Schöneberg and Ines Liebscher

- Post-Translational Modifications of G Protein-Coupled Receptors Control Cellular Signaling Dynamics in Space and Time
  Anand Patwardhan, Norton Cheng, and JoAnn Trejo

- Cognitive Impairment in Older Adults and Therapeutic Strategies
  Thomas J. Montine, Syed A. Bakhari, and Lon R. White

- Drug Addiction: Hyperkatifeia/Negative Reinforcement as a Framework for Medications Development
  George F. Koob

- Psychedelics in Psychiatry: Neuroplastic, Immunomodulatory, and Neurotransmitter Mechanisms
  Antonio Inserra, Danilo De Gregorio, and Gabriella Gobbi

- Subcellular Organization of the cAMP Signaling Pathway
  Manuela Zaccotto, Anna Zorio, and Miguel J. Lobo

Erratum

Correction to “Pharmacological Manipulation of Translation as a Therapeutic Target for Chronic Pain”

Supplemental material is available online at http://pharmrev.aspetjournals.org.

*About the cover:* Conceptual framework for the neurobiological basis of substance use disorders, involving a three-stage cycle—binge/intoxication, withdrawal/negative affect, and preoccupation/anticipation.” See the article by Koob. (dx.doi.org/10.1124/pharmrev.120.000083)